,	Application No.	Applicant(s)		
Notice of Allowability	09/939,432	TAYLOR, THEOD	TAYLOR, THEODORE M.	
	Examiner	Art Unit		
	Anthony Ojini	3723		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is search MPEP 1308.	n this application. If not inclu unication will be mailed in du	ided ie course. THIS	
 This communication is responsive to <u>amendment filed 12/8</u> The allowed claim(s) is/are <u>48-50,53-56 and 58-66</u>. The drawings filed on <u>24 August 2001</u> are accepted by the Acknowledgment is made of a claim for foreign priority ur All b) Some* c) None of the: Certified copies of the priority documents have 	Examiner. nder 35 U.S.C. § 119(a)-(d) (or (f).		
Certified copies of the priority documents have	been received in Application	on No		
 Copies of the certified copies of the priority documents International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	cuments have been received	d in this national stage applic	cation from the	
 5. Acknowledgment is made of a claim for domestic priority up reference was included in the first sentence of the specification. (a) The translation of the foreign language provisional at a Acknowledgment is made of a claim for domestic priority up in the first sentence of the specification or in an Application. 	ation or in an Application Da pplication has been receive nder 35 U.S.C. §§ 120 and/o	ta Sheet. 37 CFR 1.78. d.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a	reply complying with the re EE-MONTH PERIOD IS NO	quirements noted	
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF	
 8. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing c 	on's Patent Drawing Reviev		proved by the	
Examiner. (c) including changes required by the attached Examiner's	s Amendment / Comment or	in the Office action of Pape	r No	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			he back) of	
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATE HE DEPOSIT OF BIOLOGI	ERIAL must be submitted CAL MATERIAL.	. Note the	
Attachment(s)				
 1 Notice of References Cited (PTO-892) 2 Notice of Draftperson's Patent Drawing Review (PTO-948) 3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No 		ormal Patent Application (PT mmary (PTO-413), Paper No		
		Amendment/Comment		
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's S 9⊡ Other	Statement of Reasons for All	owance	
	1	PRIMARY EXAMINER		

Application/Control Number: 09/939,432

Art Unit: 3723

REASON FOR ALLOWANCE

The following is a statement of reasons for the indication of allowable subject matter: a system for restoring a contact surface of a processing pad used in processing microelectronic workpiece comprising the specific limitation of "an end-effector carrier assembly (170) having and end-effector (162) comprising a plurality of microstructures (166) on the conditioning surface, the microstructures being arranged in a pattern corresponding to a desired pattern of microfeatures to be impacted on the contact surface of the processing pad, and the microstructures being raised elements (168) projecting from the conditioning surface and/or depressions in the conditioning surface" in the combination as claimed in claims 48,53,55; "an end-effector carrier assembly (170) having and end-effector (162) comprising a plurality of microstructures (166) on the conditioning surface, the microstructures being arranged in a pattern corresponding to a desired pattern of microfeatures to be impacted on the contact surface of the processing pad, and the microstructures being raised elements (168) projecting from the conditioning surface and/or depressions in the conditioning surface, and a heater (180) carried by the end-effector (162)" in the combination as claimed in claims **58,59**, are not anticipated or made obvious by the prior art in the examiner's opinion. For example Sandhu et al. (5,975,994) disclose a apparatus (100) for conditioning surface of polishing pad (140), comprising a platen (120) for supporting the polishing pad (140); a conditioning carrier assembly having a holder (164) positioned over the polishing pad (see fig. 2); and conditioning element (170) that defines a front side and carried by a holder (164), the conditioner having a conditioning surface configured to

engage the contact surface of the polishing pad (140). **However**, the art of record considered as a whole, alone or in combination, fails to provide or suggest, "an endeffector carrier assembly (170) having and end-effector (162) comprising a plurality of microstructures (166) on the conditioning surface, the microstructures being arranged in a pattern corresponding to a desired pattern of microfeatures to be impacted on the contact surface of the processing pad, and the microstructures being raised elements (168) projecting from the conditioning surface and/or depressions in the conditioning surface and a heater carried by the end-effector to provide heat to the conditioning". Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Ojini whose telephone number is 703 305 3768. The examiner can normally be reached on 7 to 4 Tuesday-Friday with every other Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 703 308 2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AO March 29, 2004

> LEE D. WILSON PRIMARY EXAMINER

W. DW. Hom